A defcription of a Bridg *that may be built* 70 *foot long without any* pillar *under it, taken out of the* Jour-nal *of the* Philofophical Society *of* Oxford.

A Timber *Bridge* may be built 70 foot long or fome-what more without any *Pillar* under it, which may be ufeful in fome places where *Pillars* cannot conveni-ently be built : It may confift of two fuch *Arches* of Tim-ber, as that which is reprefented in the Figure, where-in AC and BO are Beams 28 foot long, and AB is 32 foot long. Under the Angles are fet 2 large Braces EL and SR. At each end is a wall, on which are laid two Beams BH and AD, each 20 foot long; under thefe are 2 Braces DE and RH. There may alfo be Braces at the ends of the Arches, that may be obliquely crofs the Bridge. It may be laid with Planks and railed. Behind the walls are Caufeys FD and HN. The Length of the *Bridge* CMO is 70 foot; the Height KM is 19 foot.

Obfervations